

Core Server and SmartBridges

※SSL connection

① Always needs a SSL connection

(Core Server checks the SSL connection with SmartBridge on every 30 sec.)←A kind of keepalive. Event commands and responses are exchanged.

② A connection is requested by Core server (initializing).←Switching to the secondary requires to restore the server configuration only.

③ Default port 10443 (configurable)

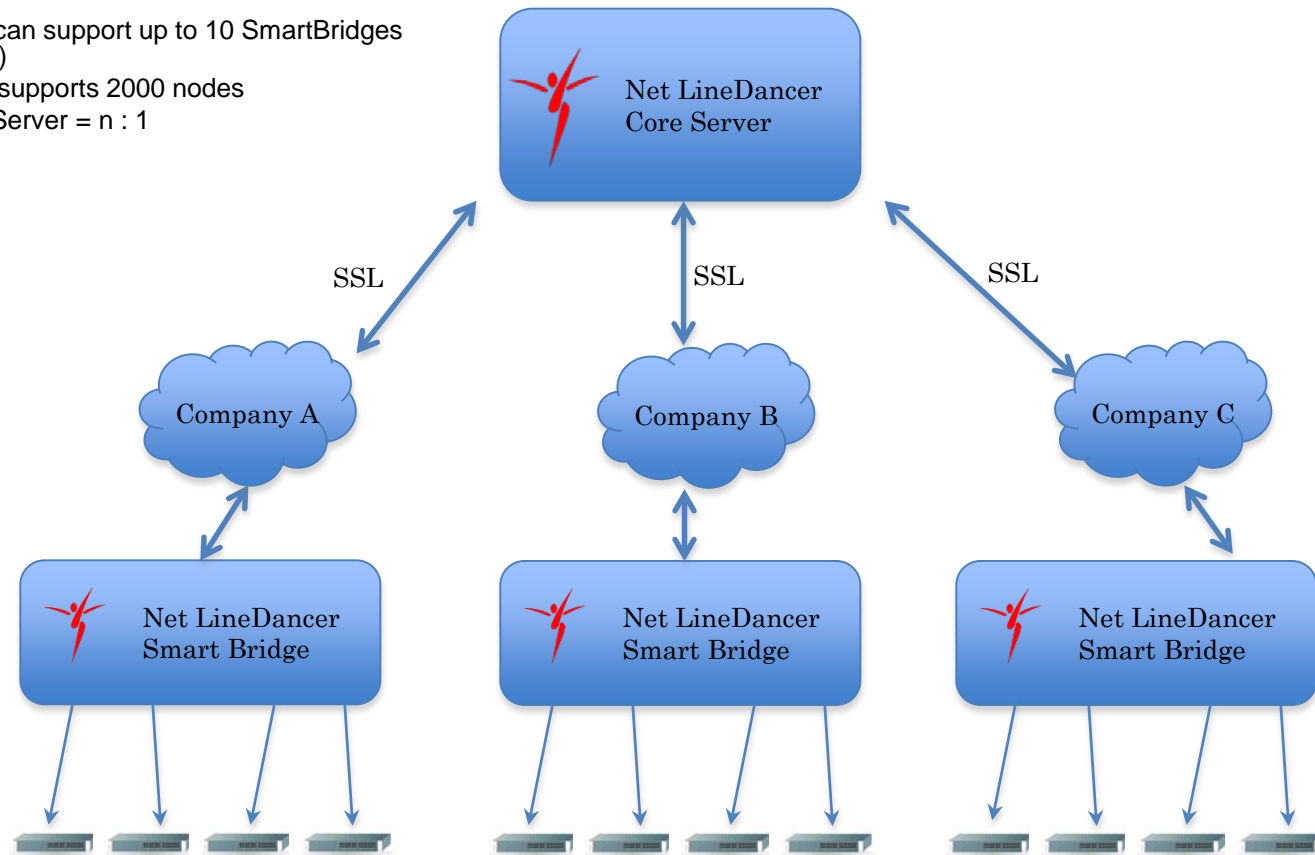
④ Default 10 connections maximum (configurable)

※Limitation:

- 1 Core Server can support up to 10 SmartBridges (recommended)

- 1 SmartBridge supports 2000 nodes

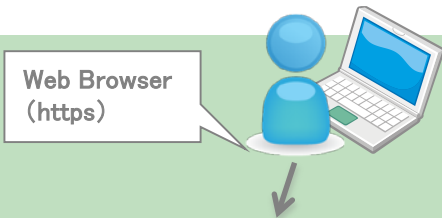
- SmartBridge : Server = n : 1



Pattern A

Core Server ↔ SmartBridge ↔ Devices

Center



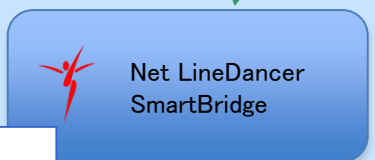
Web Browser
(https)



① Backup event command

(Compressed)
④ All configurations (initial backup)
Configuration diff (from second backup)

Sites



② Get configuration

③ All configurations



■ Reference values of traffics (bps)
managed devices: 10

Initial backup:
Core Server↔SmartBridge average 28KB, max 500KB
SmartBridge↔device average 115KB, max 800KB

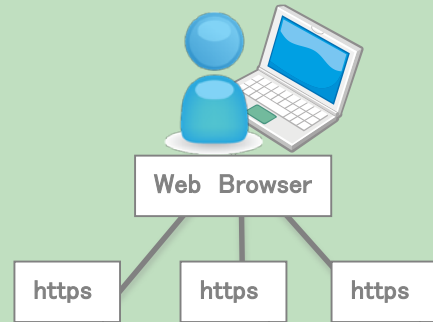
Second and following backups:
Core Server↔SmartBridge average 4KB, max 180KB
SmartBridge↔device average 82KB, max 800KB

- The traffic is compressed between core server and SmartBridge.
- With SmartBridge, only the differences are transferred to the core server after the initial backup, so traffic between the core server and SmartBridge is reduced. All devices are manageable from the one core server.

Pattern B

Servers (Sites) ↔ Devices

Center

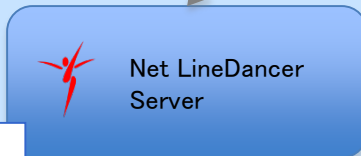


■ Reference values of traffic (bps)
Managed devices: 10

Initial backup:
Server ↔ device average 165KB, max 750KB

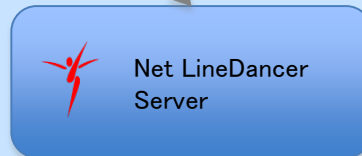
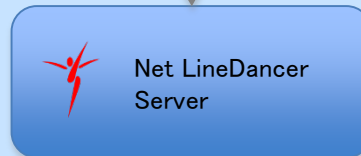
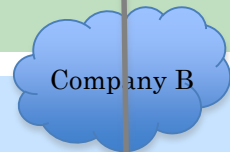
Second and following backups:
Server ↔ device average 144KB, max 650KB

Sites



① Get configuration

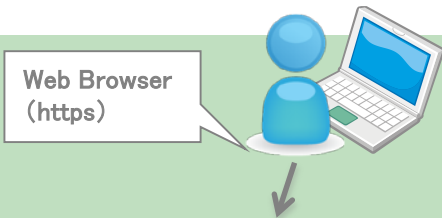
② All configurations



Pattern C

Server (Center) ↔ Devices

Center



Web Browser
(https)



■ Traffic values for reference (bps)
managed devices: 10

Initial backup:
Server ↔ device average 165KB, max 750KB

Second and following backups:
Server ↔ device average 144KB, max 650KB

① Get configuration

Site



② All configurations

